

PDR RID Report

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Document

RID ID PDR 246

Review CSMS

Originator Ref

Priority 2

Section

Page

Figure Table

Category Name Design-MSS

Actionee HAIS

Sub Category

Subject Report generation

Description of Problem or Suggestion:

There appears to be too much customization in the area of report generation process.

Originator's Recommendation

Look at COTS packages that directly interface with TIP OpenView to access pertinent data and produce appropriate reports.

GSFC Response by:

GSFC Response Date

HAIS Response by: Forman

HAIS Schedule 2/28/95

HAIS R. E. S. Singhal

HAIS Response Date 2/28/95

The CSMS design maximizes the use of COTS capabilities including the report generation functions provided within COTS products and minimizes the need for custom code. Additionally, CSMS design includes an easy to use, user-friendly, general purpose report generation COTS product integrated with the management RDBMS. Most non real-time reports will be generated by the M&O staff as required using the ad-hoc capability of the report generation tool. In addition a few pre-defined standards reports will also be provided to meet the report generation requirements. The pre-defined set includes required reports only that will be generated on a regular basis to study analysis, trends, and data correlation at each site and at EMC.

HP OpenView has been selected for the enterprise management. The graphing capabilities provided within the HP OpenView will be used to provide real-time plots of the underlying management data collected by this application. However, the current version of HP OpenView does not provide capabilities for browsing, querying, or generating reports from data collected in log files. Therefore, The CSMS design includes the processing of HP log files to filter data of interest and import it into an RDBMS.

The system management data are collected at each local host. The transmission of this data in real-time to the management workstation will create excessive network traffic and overhead. Therefore, log files at each host are emptied periodically, e.g., every hour, and processed to filter and summarize the required data into another file. Files containing the summary data are sent to the management workstation for data to be imported into the management RDBMS. This reduces the network traffic by an order of magnitude, collects all data at one location for analysis, and simplifies the node software.

The data transfer into an RDBMS with an SQL interface facilitates the data browsing, querying, and report generation. We are currently evaluating general purpose report writer COTS products that can be integrated with the management RDBMS to provide ad-hoc querying and reporting capabilities. This will provide the flexibility to M&O staff for generating ad-hoc reports of interest using the SQL application or report generation tool. Additionally, we will analyze the use of COTS products that can be integrated with the HP OpenView to generate reports without affecting the performance, efficiency, and overhead. A complete description of the custom code will be provided in the critical design documentation to be delivered later this year.

Status **Closed**

Date Closed **4/12/95**

Sponsor **Broder**

Attachment if any
